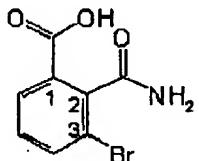
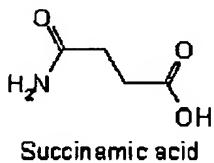


Carboxylic Acids and their Derivatives

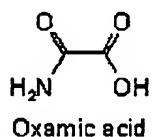
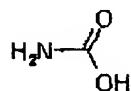
Amic acids Rule C-431

431.1 - When a dicarboxylic acid has a trivial name and when one of its carboxyl groups is replaced by a carboxamide group -C(=O)-NH₂, the resulting amic acid is named by replacing the suffix "-ic" of the trivial name of the dicarboxylic acid by the suffix "-amic".

Examples to Rule C-431.1



The following names are also recommended:



431.2 - Acyl radicals derived from the above amic acids are named by replacing the "-amic acid" ending by "-amoyl".

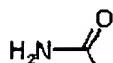
Examples to Rule C-431.2

USPTO
TO: CENTRAL FAX COMPANY:
JUL. 28. 2005 3:00PM
Kuile C-431 Amic acids

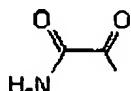
8/2/2005 4:41 PM PAGE 11/012 Fax Server

LVM 312 616 5700

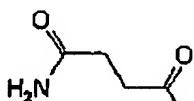
NO. 5625 P. 10
Page 2 of 3



Carbamoyl (from carbamic acid)



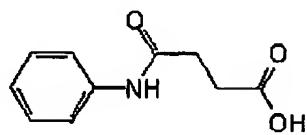
Oxamoyl (from oxamic acid)



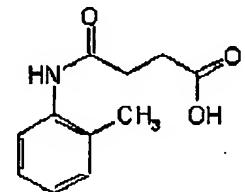
Succinamoyl (from succinamic acid)

431.3 - When the corresponding dicarboxylic acid has a trivial or semitrivial name, *N*-phenyl derivatives of amic acids are named by changing the ending "-amic acid" to "-anilic acid".

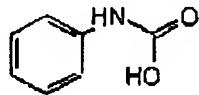
Examples to Rule C-431.3



Succinanilic acid



2'-Methylsuccinanilic acid



Carbanilic acid or Phenylcarbamic acid

431.4 - Ionoamides of dicarboxylic acids without trivial names and the mono- or di-amides of tricarboxylic acids, etc., are designated as carbamoyl derivatives of the acid named on the basis of the remaining carboxyl groups.

(This Rule is partly alternative to Rule C-431.1.)

Examples to Rule C-431.4

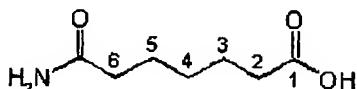
USPTO
TO: CENTRAL FAX COMPANY:
JUL. 28. 2005 3:00PM
Rule C-451 Amic acids

8/2/2005 4:41 PM PAGE 12/012 Fax Server

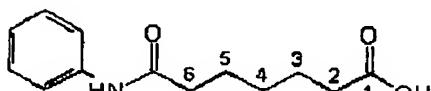
LVM 312 616 5700

NO. 5625 P. 11

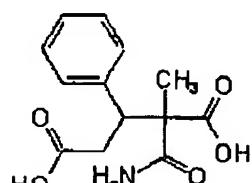
Page 3 of 3



6-Carbamoylhexanoic acid



6-(Phenylcarbamoyl)hexanoic acid



2-Carbamoyl-2-methyl-3-phenylglutaric acid

See *Recommendations '93* R-5.7.1

Next:

Peroxy Acids Rule C-441

Imidic, Hydrazonic, and Hydroxamic Acids Rule C-451

Salts and Esters Rule C-461, Rule C-462, Rule C-463, Rule C-464

Lactones, Lactides, Lactams, and Lactims Rule C-471, Rule C-472, Rule C-473, Rule C-474, Rule C-475

Acyl Halides Rule C-481

Acid Anhydrides Rule C-491



SEARCH

This HTML reproduction of Sections A, B and C of IUPAC "Blue Book" is as close as possible to the published version [see *Nomenclature of Organic Chemistry, Sections A, B, C, D, E, F, and H*, Pergamon Press, Oxford, 1979. Copyright 1979 IUPAC.] If you need to cite these rules please quote this reference as their source.

Published with permission of the IUPAC by Advanced Chemistry Development, Inc.. www.acdlabs.com, +1(416)368-3435 tel, +1(416)368-5596 fax. For comments or suggestions please contact webmaster@acdlabs.com

Additional Nomenclature Resources:

- Explore IUPAC and CAS Nomenclature tools, such as [Free IUPAC name generation](#) and professional [ACD/Name Software](#)
- Look up structures of trivial and trade names with [ACD/Dictionary](#)
- [More resources](#) for educators and students